

ABSTRACT

A programmable electro-optically controlled optical delay device providing multiple optical outputs. The optical delay device provides multiple output ports where the optical propagation delay increases at each port. An incident optical beam is propagated within electro-optically active material within the device, so that the propagation delay at each output port may be varied according to an applied voltage. In an optical beam steering system, the present invention provides true-time delay for multiple optical beams, allowing the beams radiated by the beam steering system to be time-coincident. The present invention provides for one or two dimensional beam steering.